





## **DT15270 (DrugTrack/VirtualVet)**

### **User Guide First Draft July 2015**

The purpose of DrugTrack/VirtualVet (a final name will be decided with a poll of Beta users) is to enable the farm drug recording book to be updated from a smartphone or tablet. It does not require an internet connection to function on site and stores data on the device until a connection is available, this has been done deliberately to remove the latency caused by poor connection on farm. The app can either be used in a single medicine mode so that for example a herdsman can update the drug book in the parlour when using intramammary antibiotic or in a session mode when a veterinarian is treating multiple animals for different conditions, the latter being effectively a set of the former.

The app features ability:-

- to review and print a session so that a page can be printed for addition to a hard copy drug record book as required by statute by a simple button press.

- to apply the same treatment to multiple animals (just enter >1 and the flock/herd number associated with the location replaces the individual animal

- to locate the treatment location this can be entered as a string but should relate to a unique holding number (CPH in the UK).

- to record all the fields required by the UK legislation

The alpha version saves the data to a .csv file which will be uploaded to a store in due course depending on the API requirements of the database to which it links.

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## Introduction

This document serves as a guide to the use of the DrugTrack application (project reference 15270).

Note, this guide is subject to change following feedback from alpha & beta test users.

## Registration

The application uses an authentication protocol provided by FIWARE so it is necessary to create a FIWARE Lab account prior to running the application for the first time as your account username is required as part of the registration process.

Further information can be found at the project web site.

## Start Screen

The screen in Fig.1 is displayed when the application is started and during the initialisation phase. Once initialisation is complete the user is prompted to select a farm. If a farm has been registered that matches the users current location then a prompt is displayed enabling the user to confirm. See Fig.2.

Pressing **Confirm** takes the user to either the Vet Activity screen, or the Medicine screen depending on their operational role, vet or farmer.

Pressing **Other** will display the farm selection prompt, as shown in Fig.3.



Fig.1

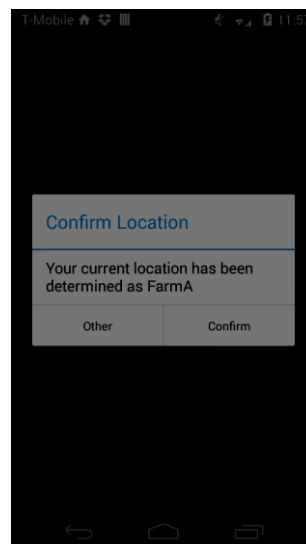


Fig.2

If the current location cannot be matched to a registered farm then all farms are displayed, as shown in Fig.3.

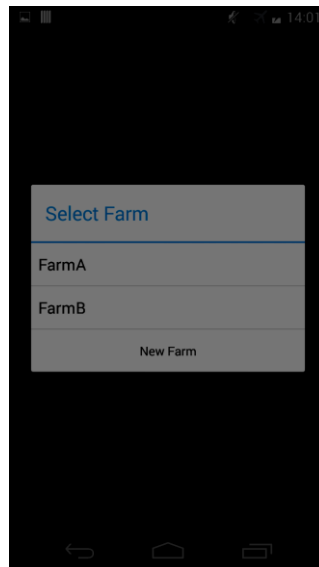


Fig.3

If **New Farm** is selected, or if the application is being run for the first time then the Farm Data Entry screen will be displayed, as shown in Fig.4.

## Farm Data Entry Screen

This screen enables the user to enter the required data to register a farm with the application.

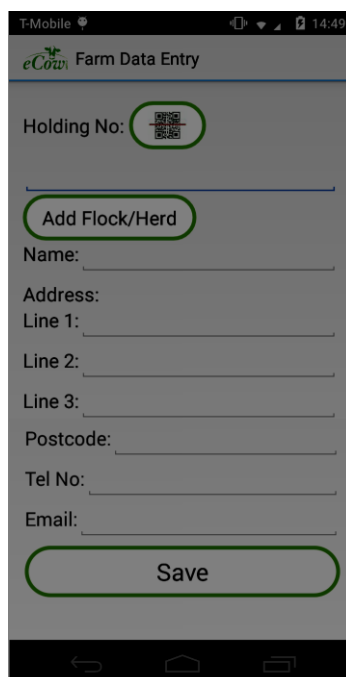
The image is a screenshot of a mobile application interface titled "Farm Data Entry". At the top, the status bar shows "T-Mobile" and the time "14:49". Below the title bar, there is a logo for "eCow" and the text "Farm Data Entry". The main form contains several input fields: "Holding No:" followed by a QR code, "Name:", "Address:" with sub-fields "Line 1:", "Line 2:", and "Line 3:", "Postcode:", "Tel No:", and "Email:". A button labeled "Add Flock/Herd" is positioned below the "Holding No:" field. At the bottom of the form is a large button labeled "Save". The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps icons.

Fig.4

Pressing the scan button enables the user to scan a previously printed QR code containing the farm identifier and details of the flocks/herds associated with it.

Pressing **Save** stores the farm data so that it can be retrieved at a later date, either by selection or via location services.

## Vet Activity Screen

If operating in vet mode the screen in Fig.5 will be displayed following farm selection. If no interaction occurs after a predefined period then this screen is replaced by the Medicine screen.

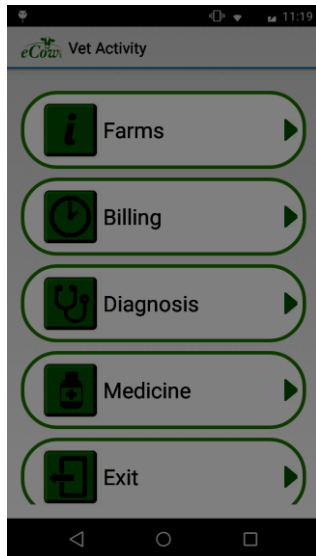


Fig.5

Pressing **Farms** takes the user to the Farm Data Manager screen.

Pressing **Billing** takes the user to the Billing screen.

Pressing **Diagnosis** takes the user to the Diagnosis screen.

Pressing **Medicine** takes the user to the Medicine screen.

Pressing **Exit** shuts the application.

## Farm Data Manager

This screen enables the vet user to edit, delete or add farm data, as shown in Fig.6.

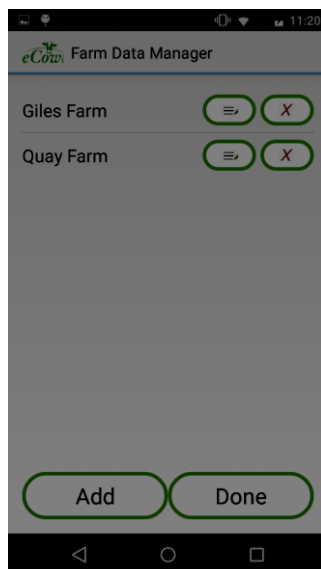


Fig.6

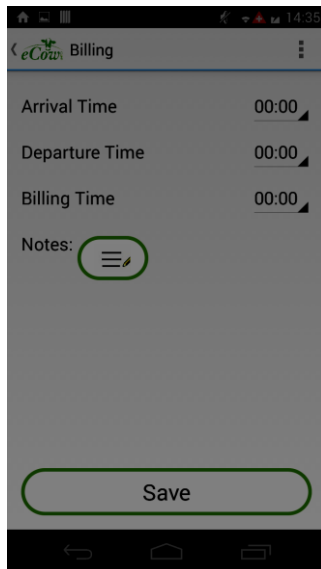
Pressing the **delete** button will show a confirmation dialog for the farm delete action, preventing accidental deletion.

Pressing the **edit** button will display the Farm Data Entry screen with the fields filled with the farm data.

Pressing **Add** will display the Farm Data Entry screen.

## Billing

The billing screen enables a vet user to record the times of arrival and departure on farm and the time to be billed to the customer.

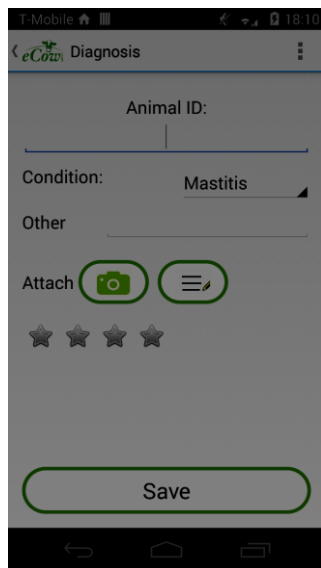


Times are entered by selecting the relevant time field  
Additional information can be entered by selecting the **Notes** button.

Fig.7

## Diagnosis

The Diagnosis screen enables a vet user to enter condition information for a specified animal, along with accompanying images and additional notes.



The Animal ID field represents the unique animal identifier, such as that contained on an ear tag.

Common conditions are shown by selecting the condition field. If the condition required is not displayed then selecting **Other** will enable it to be entered in the other field.

Up to 4 images can be attached to the diagnosis by selecting the camera icon 


Additional notes can be attached by pressing the notes button 

Fig.8



## Medicine Screen

The medicine screen controls all aspects of medicine management.

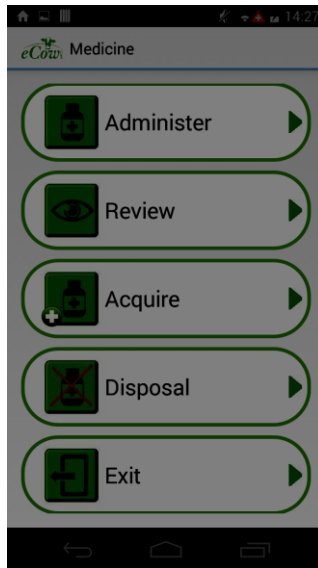


Fig.9

Pressing **Administer** takes the user to the Med Administration screen.

Pressing **Review** displays an overview of the treatments recorded.

Pressing **Acquire** takes the user to the medicine acquisition screen.

Pressing **Disposal** takes the user to the medicine disposal screen.

Pressing **Exit** shuts the application.

## Med Administration


This screen enables the user to capture all data relating to the administration of medicine.

Fig.10

The default screen is shown in Fig.10.

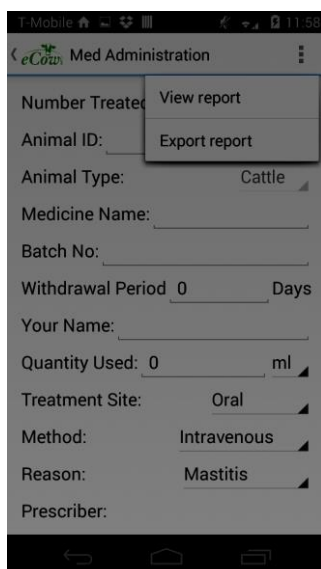
If more than one animal is to be treated then the ID becomes the flock/herd number. If more than one flock/herd is associated with the farm then the user is prompted to select on from a list, as shown in Fig.11

Withdrawal period should be determined from the medicine packaging along with the species being treated.

Additional notes can be attached to the administration record by pressing the notes button 

The menu enables a treatment report to be generated in HTML format and either viewed or exported, as shown in Fig.12

Fig.11



The screenshot shows a mobile application interface for "eCow Med Administration". The form contains the following fields and values:

- Number Treated: [Dropdown menu open with options "View report" and "Export report"]
- Animal ID: [Empty text field]
- Animal Type: Cattle
- Medicine Name: [Empty text field]
- Batch No: [Empty text field]
- Withdrawal Period: 0 Days
- Your Name: [Empty text field]
- Quantity Used: 0 ml
- Treatment Site: Oral
- Method: Intravenous
- Reason: Mastitis
- Prescriber: [Empty text field]

Fig.12

**View report** offers the user a list of installed applications to complete the action. For example, selecting a browser application will open the report for viewing and, depending on the available options, the report could then be printed.

**Export report** offers the user a list of installed applications to complete the action. For example, the report could be emailed as an attachment or saved to a cloud storage provider.

## Review

The Review screen displays a summary list of treatments stored on the device.



Fig.13

## Acquire

This screen enables the user to capture all data relating to the acquisition of medicine, in accordance with the requirements for recording drug use.

Fig.14

Supplier information is retained after initial entry so it can be selected from the dropdown list in the future.

Medicine data can be entered manually or via the scan option. If the medicine packet is scanned and has already been identified then the name and barcode fields will be filled automatically. Some medicine packaging contains a data matrix, which when scanned will also provide the batch data.

Pressing **Save** will store the data just entered and leave the supplier fields filled so additional medicine from the same supplier can be acquired.

Pressing **Done** will store the data just entered and return to the menu screen.

Disposal

This screen enables the user to capture all data relating to the disposal of medicine, in accordance with the requirements for recording drug use.

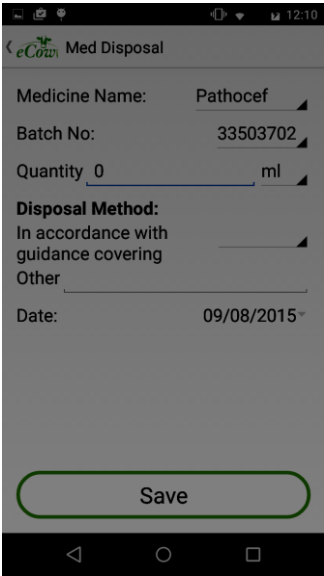


Fig.15

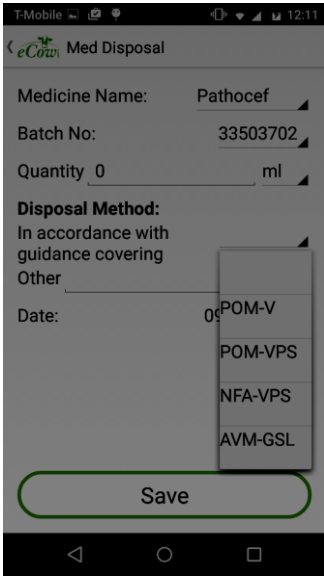


Fig.16